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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/703,802	11/02/2000	Naoki Koga	43890-455	2159

7590 11/12/2004

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EXAMINER

YUSSUF, SAJID

ART UNIT	PAPER NUMBER
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2141

DATE MAILED: 11/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/703,802

Applicant(s)

KOGA ET AL.

Examiner

Sajid A. Yussuf

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 November 2000 and 02 November 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 July 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 10/15/04.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_.

**DETAILED FINAL ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

**3. *Claim(s) 1-28 is/are rejected under 35 U.S.C. 102(e) as being anticipated by Akatsu et al. (US Patent No. 6,505,255 and Akatsu hereinafter).***

4. As per claim(s) 1 Akatsu discloses at least one a first interface unit including at least one physical layer for connecting to an external network, (See Column 6 Lines 40-67) at least one a second interface unit including plural types of physical layers for connecting to an internal network, (See Column 6 Lines 40-67) and a controller for controlling said at least one first interface unit and said at least one second interface unit, (i.e., home gateway) (See Column 6 Lines 40-67) wherein said at least one second interface unit is capable of independent operation from said at least one first interface unit, (See Column 7 Lines 21-65) and said controller transmits and receives information between said at least one first interface unit and said at least one second interface unit, (See Column 7 Lines 21-65) or between a plurality of sate second interface units, (See Column 7 Lines 21-65).

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5. As per claim(s) 2 Akatsu teaches the claimed invention as described in claim(s) 1 above and furthermore discloses at least one of said second interfaces unit is a detachable module, (i.e., digital camera), (See Figure 5 Item 534).

6. As per claim(s) 3 Akatsu teaches the claimed invention as described in claim(s) 1-2 above and furthermore discloses said module is detachable through a slot conforming to a PC card standard, (See Figure 5 Item 564).

7. As per claim(s) 4 Akatsu teaches the claimed invention as described in claim(s) ½-3 above and furthermore discloses the information to be transmitted and received between said first interface unit and said second interface unit, or between a plurality of said second interface units includes isochronous data, (See Column 8 Lines 40-67).

8. As per claim(s) 5 Akatsu teaches the claimed invention as described in claim(s) ½-4 above and furthermore discloses said second interface unit has a transmission speed of 10 Mbps or more, (See Column 6 Lines 55-67).

9. As per claim(s) 6 Akatsu teaches the claimed invention as described in claim(s) ½-5 above and furthermore discloses said controller exclusively controls said second interface unit, (See Column 6 Lines 55-67).

10. As per claim(s) 7 Akatsu teaches the claimed invention as described in claim(s) ½-6 above and furthermore discloses said at least one second interface unit has buffer memory feed lessening means for reducing variation in lessee transmission speed difference, (See Column 7 Lines 4-18).

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11. As per claim(s) 8 Akatsu teaches the claimed invention as described in claim(s) ½-7 above and furthermore discloses said first interface unit incorporates a cable modem, (See Column 6 Lines 40-67 and Column 7 Lines 1-18).

12. As per claim(s) 9 Akatsu teaches the claimed invention as described in claim(s) ½-8 above and furthermore discloses said first interface unit uses a telephone line and incorporates a modem, (See Column 6 Lines 40-67 and Column 7 Lines 1-18).

13. As per claim(s) 10 Akatsu teaches the claimed invention as described in claim(s) ½-9 above and furthermore discloses wherein one of said second interface units is a wireless interface unit separated from a toe main body of the network connection apparatus, (See Column 6 Lines 40-67 and Column 7 Lines 1-18).

14. As per claim(s) 11 Akatsu teaches the claimed invention as described in claim(s) 1-10 above and furthermore discloses said wireless interface unit may be provided with an antenna, (See Column 6 Lines 40-67 and Column 7 Lines 1-18).

15. As per claim(s) 12 Akatsu teaches at least one a first interface unit including at least one physical layer for connecting to an external network, (See Column 6 Lines 40-67) at least one a second interface unit including plural types of physical layers for connecting to an internal network, (See Column 6 Lines 40-67) an acquired information saver for saving information acquired from the external network, and a controller for controlling said at least one first interface unit and said at least one second interface unit, (See Column 6 Lines 40-67) wherein said at least one second interface unit is capable of independent operation from said at least one first interface unit, (See Column 7 Lines 21-65) and said controller transmits and receives information between said at least one first interface unit and said at least one second interface unit, (See Column 7 Lines 21-65) or between a plurality of second interface units, and acquires desired information by accessing the

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external network through said at least one first interface unit, (See Column 7 Lines 21-65) and saves the information in said acquired information saver, (i.e., memory), (See Column 8 Lines 3-34).

16. As per claim(s) 13 Akatsu teaches the claimed invention as described in claim(s) 12 above and furthermore discloses a connection request information saver for saving the connection request information from a client connected to said second interface unit, wherein said controller acquires the information to be saved in said acquired information saver by accessing the external network through said first interface unit on the basis of the information stored in said connection request information saver, (See Column 9 Lines 1-30).

17. As per claim(s) 14 Akatsu teaches the claimed invention as described in claim(s) 12/13 above and furthermore discloses further comprising display means, wherein said display means indicates storage of the information in said acquired information saver, (See Column 14 Lines 35-65).

18. As per claim(s) 15 Akatsu teaches the claimed invention as described in claim(s) 12/13-14 above and furthermore discloses the information stored in said acquired information saver is isochronous data, (See Column 10 Lines 1-9).

19. As per claim(s) 16 Akatsu teaches the claimed invention as described in claim(s) \_\_ above and furthermore discloses wherein said acquired information saver is a detachable module, (See Figure 5 Item 534).

20. As per claim(s) 17 Akatsu teaches the claimed invention as described in claim(s) 1-11 above and furthermore discloses comprising access information applying means for providing a client connected to said second interface unit with information about access, wherein said controller further provides said client with the information about access by said access information applying

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means when it is recognized that the client is connected to said second interface unit, (See Column 12 Lines 35-64).

21. As per claim(s) 18 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17 above and furthermore discloses wherein the information about access is at least IP address, (See Column 12 Lines 35-64).

22. As per claim(s) 19 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-18 above and furthermore discloses the number of EP addresses is variable, and the number of connected clients is controlled, (See Column 12 Lines 35-64).

23. As per claim(s) 20 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-19 above and furthermore discloses access information acquiring means for acquiring information about access from an Internet service provider connected through said first interface unit, wherein said controller further acquires the information about access from said access information acquiring means when it is recognized that said first interface unit is connected to the Internet service provider, (See Column 12 Lines 35-67 & Column 13 Lines 1-37).

24. As per claim(s) 21 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-20 above and furthermore discloses said access information acquiring means acquires the information about access from said Internet service provider, relating to media access control (MAC) address of the client connected to said second interface unit, (See Column 12 Lines 35-67 & Column 13 Lines 1-37).

25. As per claim(s) 22 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-21 above and furthermore discloses wherein the information about access is at least IP address, (See Column 12 Lines 35-64).

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26. As per claim(s) 23 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-22 above and furthermore discloses further comprising access information acquiring means for acquiring information about first access from an Internet service provider connected through said first interface unit, and access information applying means for providing a client connected to said second interface unit with information about second access, wherein said controller further acquires the information about first access from said access information acquiring means when it is recognized that said first interface unit is connected to the Internet service provider, and provides said client with the information about second access by said access information applying means when it is recognized that the client is connected to said second interface unit, (See Column 13 Lines 1-55).

27. As per claim(s) 24 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-23 above and furthermore discloses wherein said access information acquiring means acquires the information about access from said Internet service provider, relating to media access control (MAC) address of the client connected to said second interface unit, (See Column 19 Lines 10-36).

28. As per claim(s) 25 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-24 above and furthermore discloses the information about first access is a first: IP address, and the information about second access is a second IP address, (See Column 13 Lines 1-55).

29. As per claim(s) 26 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-25 above and furthermore discloses the number of second EP addresses is variable, and the number of connected clients is controlled, (See Column 19 Lines 10-43).

30. As per claim(s) 27 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-26 above and furthermore discloses IP address varying means for translating said first IP address and second IP address, (See Column 13 Lines 1-55).



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31. As per claim(s) 28 Akatsu teaches the claimed invention as described in claim(s) 1-11 & 17-27 above and furthermore discloses IP address varying means for translating said first IP address and second IP address, (See Column 13 Lines 1-55).

### **Conclusion**

32. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

33. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


34. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sajid A. Yussuf whose telephone number is (571) 272-3891. The examiner can normally be reached on Monday-Thursday 7:30-5:00 PM and Alternate Fridays.

35. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharra can be reached on (571) 272-3880. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

36. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sajid Yussuf  
Patent Examiner  
Technology center 2100  
4 November 2004

A handwritten signature in black ink, appearing to read 'Sajid Yussuf', written over a horizontal line.A handwritten signature in black ink, appearing to read 'Rupal Dharia', written above the printed name.

RUPAL DHARIA  
SUPERVISORY PATENT EXAMINER